

<p>Hertzflecken, S. and Feingold, M. THE CALCULATION OF THE DIFFUSION COEFFICIENT IN MIXTURES OF POWDERED SUBSTANCES June 47 [17]o Klets. RSI-308. [DSIR LIU] M 2770 Order from OIS or SLA \$1.10 61-23307</p> <p>Transl. of [Izdatel. Tekhnicheskoy Fiziki] (USSR) 1940, v. 10, p. 524-528</p> <p>DESCRIPTION: *Nickel, Diffusion, Mathematical analysis, Copper, *Powders, *Powder metallurgy.</p> <p>A formula for the calculation of the diffusion coefficient, deriving from the symmetrical disposition of grains in mixtures of powdered substances, is given. The calcula- tion by means of this formula of the diffusion coeffi- cient of nickel in copper in mixtures of powdered sub- stances can be considered to be reliable. (Author)</p> <p>(Metallurgy, TT, v. 6, no. 7)</p>	<p>61-23307</p> <p>I. Hertzflecken, S II. Feingold, M III. RSI-308 IV. DSIR LIU M 2770 V. British Iron and Steel Industry Translation Service</p> <p>Office of Technical Services</p>	
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Gerf, S. F. and Gelkov, G. I.

VISCOSITY OF LIQUEFIED PURE GASES AND THEIR
MIXTURES [1] [1961] 8p. 11 refs.
Order from OTS or SLA \$1.10

61-18004

Trans. of *Zhurnal Tekhnicheskoi Fiziki* (USSR) 1940,
v. 10, p. 725-732.

DESCRIPTORS: "Liquefied gases, Viscosity, Mixtures,
Temperature, Mathematical analysis, Propenes, Pro-
panes, Ethanes, Methanes, Nitrogen, Ethylenes.

Coefficients of viscosity were determined by the method
of Poiseuille for propane, propane, ethane and mixtures
of methane with nitrogen, methane with ethylene and
ethane with ethylene. The measurements were carried
out in the temperature interval from the triple point to
the temperature close to the boiling point of these sub-
stances under atmospheric pressure. The results re-
(Physics--Thermodynamics, TT, v. 6, no. 9) (over)

61-18004

1. Title: Poiseuille flow
1. Gerf, S. F.
- II. Gelkov, G. I.

AT1

180417

Office of Technical Services

Determination of the Diffusion Coefficient
of Metals by the Method of Vaporization
of Metals, by S. D. Gertsriken, et al.
RUSSIAN, per, Zhur. Tekhn. Fiz. Vol. 10
no. 10, 1940, pp. 786-794.
*CFSTI TT 70-57029

Sci/phys
Feb 70

Borovik, E., Matveev, A., and Panina, E.
HEAT CONDUCTIVITY OF LIQUID NITROGEN, CARBON MONOXIDE, METHANE AND ETHYLENE.
[1961] 4p. 7 refs.
Order from OTS or SLA \$1.10

61-18111

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941,
v. 10, no. 12, p. 988-998.

DESCRIPTORS: Ethylenes, Methanes, Carbon compounds, Monoxides, *Heat transfer, *Liquefied gases, Nitrogen.

The heat conductivity of liquid nitrogen and carbon monoxide were determined within the temperature interval of from -196 to -160°C., of methane from -170 to -100°C. and of ethylene from -160 to 0°C. The heat conductivity of all these substances was found to decrease in proportion to the rise of the temperature.
(Physics--Thermodynamics, TT, v. 6, no. 9) (over)

61-18111
L. Borovik E.
IL. Matveev, A.
III. Panina, E.

185423

Office of Technical Services

Shur, J.S.

THE HEAT TREATMENT IN A MAGNETIC FIELD OF
PERMANENT MAGNET ALLOYS OF HIGH COERCIVE
FORCE. 7 p. 6 refs. MTWL-674.

Order from OTS or ETC \$1.55 61-17186

Trans. of Zhurnal Tekhnicheskof Fiziki (USSR), 1940,
v. 10, no. 9, p. 757-760.

DESCRIPTORS: *Magnetic alloys, Magnetic field,
*Heat treatment, Magnetic properties, Magnetic
materials.

61-17186

I. Shur, J.S.
II. MTWL-674
III. Stichting Moeilijk
Toegankelijke Wetenschap-
elijke Literatuur

Office of Technical Services

Thermal Conductivity of Water at High Temperatures,
by D. L. Timrot, N. B. Vargaftik.

RUSSIAN, no per, Zhur Tekh Fiz, Vol X, No 13,
1940, pp 1063-1073.

Assoc Tech Sv
Tr \$15.95 5-2, 237
RJ-585

Sci - Physics
Sep 57

Likhter, A. I. and Tikhonovich, N. P.
VAPOR-LIQUID EQUILIBRIUM IN THE SYSTEM
ETHYLENE-METHANE-HYDROGEN. II. III. [sic].
[1961] 7p. 9 refs.
Order from OTS or SLA \$1.10 61-16825
Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1940,
v. 10, p. 1201-1205.

DESCRIPTORS: *Ethylenes, *Methanes, *Hydrogen,
*Liquids, *Gases, Solubility, Thermodynamics.

Liquid-vapor equilibrium diagrams were determined by
the static method for the binary system methane-hy-
drogen at temperatures of -115, -105, -95 and -85°C
and pressures up to 80 atm. By the same method liquid-
vapor equilibrium diagrams were determined for the
ternary system ethylene-methane-hydrogen under pres-
sures of 30, 40 and 80 atm. at temperatures of from
-115 to -85°C. (Author)
(Chemistry--Physical, TT, v. 6, no. 10)

61-16825

I. Likhter, A. I.
II. Tikhonovich, N. P.

16825

Office of Technical Services

The Fundamental Causes of Escalator Noise in the
Moscow Subway, by V. S. Kazanskiy, 9 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, No 15, 1940,
pp 1251-1255.

ATB

see

Aug 59

93, 690

The Spark-Over of Compressed Gases, by
A. S. Matveyev, F. P. Kharakhorin.
UNCLASSIFIED

RUSSIAN, no per, Zaur Tekh Fiz SSSR, Vol X,
No 12, 1940, pp 1.21-1.26.

Navy Tr 12-7/NRL 521

Scientific Physics

25,711

The Generation of Powerful Oscillations With
a Magnetron in the Centimeter Band, by N. F.
Aleksyev, D. D. Malyarov, 13 pp.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki,
Vol X, No 15, 1940, pp 1297-1300.

Sci Tr Center RT 3538
Physics 36, 158

Jun 56 CTS

The Combustion of a Coal Particle in a Current of
Gas Flowing Past It by A. S. Predvoditelev

RUSSIAN, Zhur Tekh Fiz, Vol X, No 16, 1940, p-1311.

Sci Museum Lib No 50/3342 - London

Scientific

Zhur Tekh Fiz Vol 10, page 1324-30 (1940)

Heat Exchange at very low Prandtl Numbers.
by M. A. Stirikovich and I. E. Semenovker.

AEC Trans (avail. Brookhaven)

NLL 10.4574

Equations of Transport of Radiant Energy and
Similarity of Radiating Systems, by A. S. Neveski,
19 pp.

HUBSCHAN, pmr, Zhur Tekh Fiz, Vol X, No 18, 1940,
p 1502.

CIA/PDO X-4707

Sci - Phys

166, 450

Sep 61

Sulfide Rectifier, by Yu. A. Dunayev &
B. V. Kurchatov.
RUSSIAN, par, Zhurnal Tekhnicheskoy Fiziki SSSR,
Vol 10, No 22, 1940, pp 1857-1870.
*NASA TT F-11,450

Sci/Phys
Mar 68

Fatigue of Antimony-Cesium Photocathodes, by
N. S. Khlebnikov, P. A. Sinitay, 14 pp.

RUSSIAN, per, Zhur Tekh Nauk SSSR, Vol X, No
22, 1940, pp 1913-1918.

SLA Tr R-717

Sci - Electricity

50,627

Aug 57

APPROVED FOR RELEASE: 09/14/ 2001

CIA-RDP84-00581R000300920004-0

New Oxygen-Silver-Cesium Photocathodes
by N. S. Mlebnikov, P. A. Sinitsyn.
RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki,
Vol X, No 22, 1940, pp 1919-1923.
CFSTI TT #471451

Apr 67

323, 22100

APPROVED FOR RELEASE: 09/14/ 2001

CIA-RDP84-00581R000300920004-0

The Burning of Ash-Bearing Coal, by I. A. Vulin.
URSS.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, 1940,
p 1959.

DSIR LIB N.1218

(loan)

Sci - Fuels
Feb 60

108374

Method

The Model Method of Study of Electromagnetic
Fields in Systems of Induction Heating, by O. X.
Babat.

RUESKAN, per, Zbir Tekh Fiz, Vol XI, 1941.

AEC Tr

Scientific - Physics

15, 055

(TDD 50315)

The Height Gain Factor and Phase Relations ⁱⁿ UHF
Fields, by S. A. Vvedenskiy, 14 pp.

RUSSLA, no per., Zhur Tekh Fiz, Vol XI, No 1/2,
Moscow/Leningrad, Jan/Feb 1941, pp 37-43.

CIA/TDD/U-5957

USSR

Scientific - Electronics, ultra-short waves

15,646

Ultrasonic Methods for Studying the Properties
of Hardened Steel and for Detecting Internal
Defects in Steel Parts, by S. Ya. Sokolov,

RUSIAN, per, Zbir Tekh Fiz, Vol XII, XI,
No 1-2, 1941, pp 160-169.

23/163

Bratcher Tr No 3392
\$9.540

Scientific - Min/Metals

Apr
New 55 CMS

I. Levitt-Kaya, R.P.
II. DE LA THERMIE LIBRE LIQUIDE-VAPEUR DU SYSTÈME TERNAIRE: ETHANE-MÉTHANE-HYDROGÈNE
(Issledovaniye Zhihlosti' par Troisoi sostoyaniy: Etane-Metan-Vodorod) (Investigation of the
Liquid-Vapor Equilibrium in the Ternary System: Ethane-
Methane-Hydrogen). 17p. (foreign text included)
9refs. CNRS-VI 901.

Order from OIS, ETC or CNRS \$0.80 TT-62-25588

Trans. in French of Zhurnal Tekhnicheskoi Fiziki
(USSR) 1941, v.11, no.3, p.107-207.
Other translation are available in English from
AT&T as RJ-306; from OIS or SLA \$1.10 as
TT-61-18056 and \$1.60 as TT-62-18807; and in Dutch
from OIS or ETC \$1.55 as TT-61-17751.

DESCRIPTORS: *Ethanes, *Methanes, *Hydrogen,
*Liquids, *Gases, Pyrolysis, Solubility, Tempera-
ture, Pressure, Vapors, Phase studies, Thermo-
dynamics.
(Chemistry-Physical, TT, v. 11, no. 8)

TT-62-25588

I. Levitt-Kaya, R.P.
II. CNRS-VI 901
III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

Kushnir, Yu. M. and Frumin, M. I.
ENERGY DISTRIBUTION OF SECONDARY ELECTRONS AS A FUNCTION OF ANGLE OF EMISSION.
[1960] 8p. 14 refs.
Order from RIS \$4.00
Trans. of Zhur[nal] Tekhnicheskoy Fiz[ics] (USSR)
1941, v. 11, no. 4, p. 317-322.

RIS E-642

143,131

61-12045

- I. Secondary emission--Energy
- II. Kushnir, Yu. M.
- III. RIS E-642
- IV. Research Information Service, New York

(Physics: Electronics, TT, v. 5, no. 1)

Office of Technical Services

<p>Strelkov, P. G. and Lin'kov, V. I. STANDARDIZATION OF A RESISTANCE THERMOMETER AT THE OXYGEN POINT. [1961] 13p. 12 refs Order from OTS or SLA \$1.60</p> <p>Transl. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941, v. 11, p. 357-377.</p> <p>DESCRIPTORS: *Resistance thermometers, Thermometers, Standardization, Oxygen, Determination.</p> <p>(Physics--Thermodynamics, TT, v. 7, no. 9)</p>	<p>61-18072</p> <p>I. Strelkov, P. G. II. Lin'kov, V. I. 61-18072</p> <p>Office of Technical Services</p>
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Reduction of Carbon Dioxide in Carbon Channel, by
L. A. Vulis, L. A. Vitman, 13 pp.

RUSSIAN, ref., Zhur Tekh Fiz, Vol XI, 1941, pp
509-518.

SLA R-2976

Sci

Jul 59

92, 446

Galkov, G. I. and Gerf, S. P.
VISCOSITY OF LIQUEFIED PURE GASES AND THEIR
MIXTURES, IL [1961] 4p. 6 refs.
Order from OTS or SLA \$1.10 61-18003

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941,
v. 11, p. 613-616.

DESCRIPTORS: *Liquefied gases, Viscosity, Mixtures,
Temperature, Mathematical analysis, Oxygen, Ethane,
Propanes, Propenes, Nitrogen.

Coefficients of viscosity for liquid oxygen, ethane, propane,
propane and mixtures of ethane with propane and
of oxygen with nitrogen were determined by the method
of Poiseuille. The measurements were carried out in
the interval of temperatures from the melting to the
boiling points. The results are reported as viscosity-
temperature and viscosity-composition curves.
(Author) (See also 61-18004)

61-18003

I. Title: Poiseuille flow
I. Galkov, G. I.
II. Gerf, S. P.

* RTIC

103416

(Physics--Thermodynamics,
TT, v. 6, no. 9)

Office of Technical Services

ZHURNAL TEKHNICHESKOY FIZIKI Vol.XI No. 7 (Jul'51)
pp 617-8.

"A SCHEME FOR A HIGH-VOLTAGE ELECTROSTATIC GENERATOR WITH
A METAL GROUNDED AXIS" by Ioffe and Gokhberg.

PROJECT #7788

ST- 243

TD 15-Jan '51

DATE: Jan 18 1951

WAK

Gerf, S. F. and Galkov, G. I.
VISCOSITY OF LIQUEFIED PURE GASES AND THEIR
MIXTURES, III. [1961] 8p. 7 refs.
Order from OTS or SLA \$1.10

61-18002

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941,
v. 11, p. 801-808.

DESCRIPTORS *Liquefied gases, Viscosity, Mixtures,
Measurement, Ethanes, Carbon compounds, Monoxides,
Methanes, Ethylenes, Nitrogen.

Coefficients of viscosity for liquid ethane, carbon monoxide, methane, ethylene and mixtures of methane with nitrogen, methane with ethylene and carbon monoxide with nitrogen were determined by a method involving the use of a rotating cylinder. The measurements were carried out within the temperature interval from the boiling point to the critical temperatures and the results are represented as viscosity coefficient-temperature (Physics--Thermodynamics, TT, v. 6, no. 9) (over)

61-18002

L. Gerf, S. F.
U. Galkov, G. I.

Office of Technical Services

5415

Zh Tekh Fiz Vol II, page 843-53 (1941)

Investigation of Vibrations in Piezoelectric Quartz
Plates by the Method of Light Interference.
by M. L. Kotlyarevski and E. Ya. Pumper.

AEC Trans (avail. Brookhaven)

Mechanism of the Diffusion in the Cementation of
Iron and Nickel by Chemical Compounds, by M. g.
Okunov, L. S. Moroz, 22 pp.

RUSSIAN, par, Zhur Tekh Fiz, E Vol XI, 1941,
pp 689-699.

SLA R-768

Sci - Minerals/Metals
Oct 57

54L 048

Zhou Sekku Eng. Vol 11 (II), 1941.

"About the Mechanism of Failure
of Metals"

Done in S. S. by ACSIL (Admiralty)

44/4666

P 215715

See Index Acro, May 1943, p. 68

PL 470

Kharakhorin, F. P.

PHASE RELATIONSHIPS IN COMPRESSED GAS SYSTEMS. II. EQUILIBRIUM IN COEXISTING LIQUID AND VAPOR PHASES IN THE SYSTEM ETHANE-ETHYLENE. [1961] Sp. 3 refs.

Order from OTS or SLA \$1.10

61-18034

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941, v. 11, p. 1133-1139.

DESCRIPTORS: *Ethanes, *Ethylenes, Liquids, Vapors, Phase studies, Chemical equilibrium, Determination.

Equilibrium compositions of the liquid and vapor phases in the binary system ethane-ethylene were determined by the circulation method for temperatures from 169.3°K to 273.15°K under pressures from 0.5 to 40 atm and p-x and T-x diagrams constructed. It was shown that the data for the liquid and vapor phases may (Chemistry--Physical, TT, v. 6, no. 9) (over)

61-18034

I. Kharakhorin, F. P.
II. Title: Equilibrium...

105421

Office of Technical Services

3/24/54 - 729

Vol 12, # 2/3, pp 65-16 (42)

Investigation of Disruptive strength of Gases

B. M. Gakhberg +
E. Ya. Zandberg

AEC Nr - 355
Brookhaven

Forced Vibrations of a System Striking a Stop, by
I. G. Russakov, A. A. Kharkevich,

RUSSIAN, per, Zhur Tekh Fiz, Vol XII, No 11-12,
1942, pp 715-721.

AT&T RJ-1304

Sci - Phys
Jul 59

92, 219

On the Nature of Phases Occurring on the Boundary of Steel in Diffusion of Tungsten, by G. N. Dubinin, Dr. A. Bagaryatskiy, 12 ..

RUSSEK, par, Zhur Tekh Fis, Vol XII, No 11,
1946, pp 1741-1750.

ACSI, u-4604

Set - Skys

Dec 59

104, 452

Kharakhorin, P. F.

PHASE RELATIONSHIPS IN [COMPRESSED GAS SYSTEMS. I]. BINARY SYSTEM NITROGEN-HELIUM. [1961] 8p. 14 refs.

Order from OTS or SLA \$1.10 61-18035

Trans. of *Zhurnal Tekhnicheskoi Fiziki (USSR)* 1940, v. 10, p. 1533-1540.

DESCRIPTORS: *Nitrogen, *Helium, Liquids, Vapors, Phase studies, Chemical equilibrium, Determination.

An experimental unit is described suitable for determination of the liquid-vapor equilibrium at pressures up to 200-250 atm. by the circulation method. Determination of p-x diagrams has been carried out for the system nitrogen-helium at 68, 77.3, 90.1, 107 and 111.5°K. The obtained data were compared with the experimental data reported by other authors. (Author) (Chemistry--Physical, TT, v. 6, no. 9)

61-18035

I. Kharakhorin, P. F.
II. Title: Binary ...

105419
Office of Technical Services

Electric Conductivity of Alumina at
High Temperatures, by A. R. Shulman,
14 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, 1940,
pp 1173-1182.

SLA R-2414

Sci

Aug 58

72,206

Antimony-cesium Emitters, by P. V. Timofeyev,
Yu. I. Lura'kova, 7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, No 1, 1940,
pp 20-23.

Sci Tr Center
RT-1504

Scientific - Physics

18, 930

Absorption of Energy by Metals in Plastic Compression
As a Function of Melting Point, by A. A. Federov, 14 pp.
RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki, No 11, No 11,
1941, pp 999---.
ARM/FSTC/HT-23-778-71

Jan 72

Kilbanova, Ts. M., Pomerantsev, V. V., and
Frank-Kamenetskii, D. A.
DIFFUSION COEFFICIENTS OF GASES AT HIGH
TEMPERATURES. [1962] [32]p. (figs. omitted) 7 refs.
Order from OTS or SLA \$3.60 62-18273

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1942,
v. 12, no. 1, p. 14-30.

DESCRIPTORS: *Diffusion, *Gases, *High temperature
research, Capillary tubes, Theory, Differential
equations.

The diffusion coefficients of CO_2 in air at temperatures
from 17° to 1260° C. and of H_2O in air at temperatures
from 100 to 1200° C. were determined. The possibility
of calculating the diffusion coefficients with the equation
of Sutherland was confirmed. An empirical equation is
given for determining the Sutherland constant of mixed
gases from the constants for the pure gases.
(Chemistry--Physical, TT, v. 9, no. 10)

62-18273

I. Kilbanova, Ts. M.
II. Pomerantsev, V. V.
III. Frank-Kamenetskii, D. A.

Office of Technical Services

The Production of X-Ray Photographs With Very
Short Exposure Times, by V. A. Tsukerman, A. I.
Avdeyenko, 14 pp.
RUSSIAN, per., Zhurnal Tekh Fiz, Vol XII, 1942,
pp 185-196, 9230425.
AEC LA-UR-65-21

293,006

Sci-Phys
Nov 65

A High-Power Electric Spark in Air at
Atmospheric Pressure, by I. S. Abramson,
I. S. Marshak, 18pp
RUSSIAN, per, Zhurnal Tekhicheskoi Fiz, Vol 12,
1942, No 10, pp 632-639
OTS TT-64-11821

Sci - Phy
May 67

326,520

A High-Power Electric Spark in Air at Atmospheric Pressure, by I. S. Abramson, I. S. Marshak, 13 pp.
RUSSIAN, per, Zhur Tekh Fiz, Vol XII, No 10,
1942, pp 632-639. 9223018

Amer Meteorol Soc

T-R-414

ALL 7773.75 1964, on 1004-1

Sci & Phys
Jul 64

263,871

Myasnikov, L. I.
EFFECTIVE RECOGNITION OF SPEECH SOUNDS
[Sf "Osnovy i napravleniya vysulov Rezhi]. [1962]
[15 p. [USASIA] Transl. Log no. 1059
Order from OIS or A. \$1.60 62-32641

Trans. of [Zurnal Tekhnicheskikh Priborov] (USSR)
1943 [v. 13] no. 7 [pp. 109-115].

INDESCRIPTORS: *Speech, Intelligibility, *Speech
transduction, *Speech representation, Sound.

(Research Methods--Communication Theory, T.F.
v. 10, no. 1)

62-32641

- I. Title: Speech recognition
I. Myasnikov, L. I.
II. USASIA Trans-1059
III. Army Signal Intelligence
Agency, Arlington, Va.

Office of Technical Services

The Accumulation of Acetylene in Condensers of Liquid-Air-Fractionating Apparatus, by P. Z. Burbo.

RUSSIAN, per Zh Tekh Fiz, Vol XIII, 1943, pp 116-122.

AMC Tr (Avail Brookhaven)

Scientific - Physics

Nov 1949 CTS

16,758

Zhur Tchek Fig Vol 13, No 7-8, 1943

"Evaluation of Textile Diagrams
by means of Measuring Hardness"

Done in 99.B. by ACSIL (Admirey)
49/4658
P 21547T

See Index Aero, May 1950 P. 61

Magnetic Field Meter, by A. G. Kalashnikov,
RUDNISTAN, per, Zhur Tekh Fiz, Vol XIII, No 7/8,
1943, pp 407-422. CIA 563363

ATTIC F-19-8938/III

40,994

B61 - Physics

Jun 1956

On Combustion in a Turbulent Flow, by K. I. Shchelkin, 16 pp.

RUSSIAN, pmt. Zhur Tekh Fiz, Vol XIII, No 9-10,
1943, pp 520-530. C.I.A. L.D.T. 2/27

Sci Trans Center RT-541

10, 974

Scientific - Aeronautics
CTS/DIX

Conditions Producing a Marked Degeneracy in
Electron Gas, by K. S. Shifrin.

RUSSIAN, per, Zhur Tekh Fiz, Vol XIV, 1944,
pp 40-42.

NRL Tr 18

On Jerks ("stick-slip") In Friction by A. Yu.
Ishlinskii and I.V. Kragel'skii.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki, Vol
XIV, No 4/5, 1944, pp 276-282.

CSIRO

Oct. 62

Effect of Admixtures of Antimony and Tellurium on the Electrical Properties of Selenium, BY I. L. Kozlovskii and D. N. Masledov.

Full translation.

RUSSIAN, no par, Zhur Tekh Fiz, USSR, Vol XXXI,
No 11, 12, 1943, pp 627-636.

AEC Tr 1421

USSR

Scientific - Physics, chemistry, antimony, tellurium, selenium

Nov 52 CTS/DEX

Influence of Excited States of the Impurity
Atoms on the Electric Properties of Semi-Conductors,
by K. S. Shifrin.

RUSSIAN, per, Zhur Tekh Fiz, Vol XIV, 1944, pp 43-48.

NRL Tr 20

Zhur Tekh Fiz Vol 14, page 99-107 (1944)

Factors Determining the Intensity of Oscillations in
the Plasma of a Gas Discharge,
by A. A. Slutskin and A. T. Maidanov.

AEC Trans (avail. Brookhaven)

The Burning of a Rapid Stream in a Pipe, by
Ya. B. Mel'dovich, 23 pp.

RUSSIAN, par, Zhur Tekh Fiz, Vol XIV, No 3,
1944, pp 163-171.

Sci Trans Center
RT-1948

Scientific - Physics Jan 55 CTS/DEX

20,847

REF ID: A6512	
Semenov, P. THE FLOW OF LIQUIDS IN THIN FILMS (Technic Zhizkosti v Tonkikh Sloyakh). [1961] 6p. 4 refs. [DMR LLU] M. 2733. Order from OTIS or, SLA \$1.10	61-23334 I. Semenov, P. U. DSIR LLU M. 2733
Unedited trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1944, v. 14, p. 427ff.	
DESCRIPTORS: *Liquids, Motion, *Fluid flow, Thin films, Mathematical analysis, Differential equations, Fluid mechanics.	
The flow of liquids in thin layers in the presence of a sharp counterflow of gas were investigated. Six dif- ferent regimes of flow are described, the existence of which were demonstrated experimentally. The bound- ary conditions are applied to the equations of flow, to the calculation of gravity forces, the horizontal gra- (Mechanics--Hydraulics, TT, v. 6, no. 12) (over)	Office of Technical Services

On the Theory of Dipole Excitation, by M.
Leontovich and M. Levin, 29 pp.

RUSIAN, per, Zhur Tekh Fiz SSSR, Vol XIV, 1944
No 9, pp 681-706.

SLA R-1951

Sci

Jul 58

68,315

id Controlled Magnetron and Some of its Applications in the Range of Medium Ultra-short and Centimeter Waves, by S. Ya. Braudo and A. M. Anchenko.

ISSIAN, per, Zhur Tekh Fiz, Vol XIV, 1944,
611-622.

AEC Tr.

16,414

Scientific - Electronics Nov 1949 CTS

CHERTAVSKII, A. K.

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research, *Mechanical properties, Measurement.

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